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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/599,084	06/15/2007	Paul J. Keall	02940350AA	3890
30743 7590 05/19/2009 WHITHAM, CURTIS & CHRISTOFFERSON & COOK, P.C.			EXAMINER	
11491 SUNSET HILLS ROAD			HOFFA, ANGELA MARIE	
SUITE 340 RESTON, VA	20190		ART UNIT	PAPER NUMBER
,			3768	
			MAIL DATE	DELIVERY MODE
			05/19/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/599,084 KEALL ET AL. Office Action Summary Examiner Art Unit Angela M. Hoffa 3768 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 15 June 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-15 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 19 September 2006 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(e)

1) Notice of References Cited (PTO-892) 1) Notice of Draftspersor's Patient Drawing Review (PTO-948) 2) Notice of Draftspersor's Patient Drawing Review (PTO-948) 2) Notice of Draftspersor's Patient Drawing Review (PTO-948) 2) Notice of References Cited (PTO-948) 2) Notice of References Cited (PTO-948) 2) Notice of References Cited (PTO-982) 2) Notice of Patient Cited (4) Interview Summary (PTO-413) Paper Nots/Mail Date. 5) I. Actice of Informal Pater Ligation 6) Other:	
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DETAILED ACTION

1. This office action is in response to communication filed on June 15, 2007.

Priority

 Applicant's claim for the benefit of a prior-filed application under 35 U.S.C. 119(e) or under 35 U.S.C. 120, 121, or 365(c) is acknowledged.

Drawings

3. The drawings are objected to because shading in drawings is only permitted if it is necessary to illustrate the concept of invention. Since this does not appear to be the case, Figures 1, 6A-6B, and 7A-7E are objected to and require correction. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet"

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pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

4. Claim 10 is objected to because of the following informalities: Claim 10 does not include any further structure to limit the scope of invention since the claim is directed towards a system rather than a method. Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filled in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filled in the United States before the invention by the applicant for patent, except that an international application filled under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filled in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-15 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S.
 Patent No 6.690.965 to Riaziat et al.

Riaziat et al discloses a system and method for reducing motion artifacts and patient dose in radiological 4D CT imaging comprising:

 -Measuring periodic motion of a lung tumor (Col. 1, Lines 57-58) using a respiratory signal (Fig. 2-3) to detect irregularities in its periodic motion using an Application/Control Number: 10/599,084

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envelope technique (signal range 302, Fig. 3), wherein the irregularities are representative of motion artifacts in the image (Col. 1, Lines 15-49; Col. 7, Lines 46-53). Riaziat et al further discloses many functionally equivalent means for measuring the respiratory signal including cameras, temperature sensors, strain gauges, spirometers, and pneumotactrographs (Col. 1, Line 58-61, Col. 2, Lines 4, 42).

-Controlling a 4D CT scan of the lung anatomy so as to pause the scan during period having said detected irregularities ("beam hold" gating signal threshold 310, Fig. 3, Col. 5, Lines 38-55).

Riazial et al further discloses a computer (computer 110, Fig. 5a) as the means for carrying out the processing and recording steps.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent Publication No. 2005/0113673 to Avinash et al discloses subject matter that reads on the claimed invention. U.S. Patent Nos. 7,191,100 and 6,959,266 to Mostafavi discloses subject matter that reads on the claimed invention. U.S. Patent No. 5,271,055 to Hsieh et al discloses subject matter that reads on the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela M. Hoffa whose telephone number is 571-270-7408. The examiner can normally be reached on Monday - Friday, 9:00 am - 5:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. M. H./ Examiner, Art Unit 3768

/Long V Le/ Supervisory Patent Examiner, Art Unit 3768